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Greater Bangalore Authority

Office of the Chief Engineer, Project Implementation Unit, GBA, Shopping Complex, Jayanagara 4th block, Bangalore-560011

No. CE/GBA/PIU/ PR/202/2025-26 Date: 6/2/26

PMC Pre – Bid Meeting Proceedings

Sub: - "Proposed Construction and Up-gradation of Existing maternity and Referral Hospital as per IPHS 2022 Standards including Supply of Medical Equipment's, Installation Of MGPL, Firefighting works, HVAC, Electrical and Other Allied Works in GBA Limits." Regarding Pre-Bid meeting

Date: 31-01-2026

Venue : O/o The Chief Engineer, PIU, 9th Floor, Shopping Complex, 4th Block, Jayanagar, Bangalore 560 011

Officers Present:

1) Chief Engineer, PIU, GBA.
2) Executive Engineer-4, PIU,
3) Assistant Executive Engineer, PIU,

Agencies Bidders Present:

1) Amrutha Construction.
2) Laksyanya ventures.
3) Aditya Life care.
4) G.K Sales.
5) Sun Zen Enterprises.

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For the following queries raised in the Pre-bid meeting replies are as listed below:

1. Adithya Life

Sl .No	Tender Clauses Sl.No / BOQ Item No. GBA	Queries	Request for the Modification	Clarifications/Modification for the Queries
1	1244	**OT Table (Hydraulic)** 1. The table should have a minimum of 4 sections i.e. head section, leg section, a seat section and back plate section. 2. The table should be electro-hydraulically operated having the following hand switch operated electro-hydraulic functions (all the dimensions will have a permitted deviation of +/- 10 Percentage)	Specification is not matching with Product .Kindly Change the Specification	**It should be read as** **"OT Table (Hydraulic)** • Power Source : Hydraulic Table Type : Hydraulic • Motorized movements • Used in General Surgery , Minor Operation Theater **Material:-** • Stainless Steel, Double wall construction, chip Proof, crack Proof or rust Proof. • Seat Cushion: washable, high quality rexin. • Tough exterior resist impact inner is impervious to stain & odors. **Dimensions of Hydraulic OT Table (Approx)** • Top Dimension: Length 1985 mm X Width 535mm • Height Adjustment (Min to Max): 670 mm to 920 mm • Reverse Trendelenburg : 30° / 25° Lateral Tilt: 20° / 20° Back Rest (Up and Down): 80° / 25° Leg Rest (Up / Down): 10° / 90° • Head Rest (Up / Down): 45° / 90° • Patient Weight Capacity: 180Kgs - 200KGS • Supplier Should provide at least report from 3 different users. CE/USFDA/BIS/ISO Approved along with CDSCO"
2	1277	**Semi Automatic Analyzers** 2. Should have ERA flow cell with copper flow cell holder with measuring volume of 30 uL	Option of sq.cuvette Dual cuvette system / ERA / Single USA Manufacturer Specification	Tender Condition Prevails

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3	1286	**Sterilizer** ETO gas sterilizer Specifications Specification, • chamber size W12"xH12"xL54" • Working temp 35 to 55 • Capacity 120 ltrs Cardiac model • Fully automatic touch screen monitor controller • programming with thermal printer 100 gram of single EO gas cartridge used • Inbuilt aeration system,	Kindle change the Specification to Laboratory Use in 50/30 Bedded hospital. Useful only in Cardiac Hospital for Sterilization of Cardiac Instruments	Tender Condition Prevails
4	1300	**USG with TVS, Linear, Convex** 3 The System should be "Made in India" and should be mentioned in the machine. Should have Valid CDSCO and CE certification.	Kindly Add USFDA/CE/BIS along with CDSCO.It's a standard practice	The System should be "Made in India/USFDA/CE/BIS " and should be mentioned in the machine. Should have Valid CDSCO and CE certification.
		58 7-18 MHz High Frequency Multi-frequency Linear Transducer for superficial and Musculoskeletal scans.	Kindly remove this point. This is not a standard Specification for Gynecology Scan Machines.	Tender Condition Prevails
5	1316	**Auto Analyser Cell Counter (3 part)** 8. Use only three reagents Diluent, Lyse and Cleaner with automated cleaning of sample probe and reagents should be in compact pack size without the limitations of any card system.	Bar Code Option to be provided. USA Company Specification Indian Manufacturers having only Bar Code System	Tender Condition Prevails
6	1329	**C-ARM (Flat Panel Detector)** a. Type: High Frequency minimum 20 KHz.	High Frequency to minimum Of 100khz. Higher frequency ensures improved signal , faster response time and accuracy , stability performance	Tender Condition Prevails
		f. Pulsed fluoroscopy Mode: up to 10mA or better :	Request to delete this since it's a one company specific, This is not a regular feature of Most of the India manufacturers	
7	1332	**CBC Machine 3 part** 7. Should have throughput up to 60 samples per hour.	Should have throughput up to 30 samples per hour,General Specification of India Manufacturers	Tender Condition Prevails

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		Consumables for 500 patient tests	Maximum 100 Tests strips can be given free With Machine .Standard Practice of Industry	
8	1336	**Chemistry Analyzer - FA - BIO CHEM**		Tender Condition Prevails
		System Should be Fully Automated random access routine chemistries. Throughput should be more than 235 tests/hour or more for Photometric tests.	Minimum 150 tests/hour or more for Photometric tests. Indian manufacturer standard Specification	
		Water consumption should be less than 5L/Hour.	Water consumption should be between 5L to 8L/Hour. Indian Conditions it Requires More water	
9	1339	**Cold storage**	Required Size to be Provided	Tender Condition Prevails
		Reagent Refrigerator Various Types		
		1. Capacity		
		a. 300 – 400 L		
		b. 500 – 600 L		
		c. 750 – 800 L		
10	1344	**NBCC - with Open care system, T piece, Blender, etc**		Tender Condition Prevails
		Height of the side walls over the mattress : 130 millimeter :	Kindly Change To 100 -130 Milimeter.Size is of one specific Company Specification.	
		Provision of X-Ray cassette tray of at least 750 mm X 350 mm size, suitable to adopt <= 20mm thick X-Ray cassette:	Kindly Change To at least 500 X 300 mm and more. Size is of one specific Company Specification.	

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11	1347	**Dental X Ray Unit**	Specification is not Matching	**It should be read as** "Dental - X ray unit 1. Generator Constant Potential (DC) 2. Focal Spot size 0.8 mm or better 3. Tube voltage Selectable 65 KVp fixed or better 4. Current 7mA fixed or better 5. Exposure time 0.01sec to 1 sec or better 6. Arm Length At least 80" 7. Line Voltage 220-230Vac 8. Accessories Round 8" cone Stand Model with four legs and Wheels 9. Should Supply a. Lead Apron with Thyroid guard – Light weight. 10. The offered model of X ray machine should have AERB type approved. Copy of the certificate should be submitted along with the offer form".
12	1350	Digital X-ray system (CR system with 500ma x-ray),Table and Bucky, Printer	Specification is not Matching with Product	It should be read as "5 KW Digital Mob+B9:B27 I. X-Ray Generator: • High-frequency X-ray generator • Frequency – 100 KHz or more. • Output power 5KW or more. • KV Range – 40 to 110KVp • mA range – 10 to 100 mA or more • mAs range – 0.1 to 250 mAs II. X-Ray tube: • Stationary anode • Focal Spot: 1.8mm² or lesser. • The anode heat capacity should be 40 KHU or more. • Manual Collimator with auto-shut facility III. Control Panel • Integrated Console with 15" inches or more full touch screen display for Image Acquisition and parameter selection. • Error Indication in case of malfunction of X-Ray Equipment • Display of KV, mA & mAs selection from software console. • Programmable Anatomical Program Radiography should have a selection of 1000 or more programs. • KVp increment & Decrement in step of 1KVp only. • The console should have an inbuilt Intel i5 processor, 8GB RAM, 1920x1080 Pixels Screen Resolution and storage

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				capacity of 0.5Lac images or more. IV. Flat Panel Detector: • Cesium Iodide (CsI) Scintillator • Wireless14x17 inches (36 x 43cm) detector. • Latest Technology IGZO TFT. • Lossless AED/AWC increases dose efficiency and image quality by detecting X-ray start and finish with perfect precision. • Should have a spatial resolution of 3.5 lines pair/millimeter or more. • The Pixel Matrix should not be less than 2560 x 3072 pixels. • The Pixel pitch should be 140µ or lesser. • The detector should have an internal storage of 100 images to use as standalone. • Should have a minimum image depth of 16 bits or more. • The detector should be lightweight (≤ 3.0Kgs). • The Detector should be supplied with 2Nos. Lithium Polymer Batteries, Weight <0.24 kg. • The Battery Charger should have the facility to charge two batteries simultaneously. • The ingress protection rating of the detector should be IP54 or more (dust & liquid). • The system should have special technology like Trueview Art or equivalent to increase sharpness in the images that improves the possibility of detecting abnormalities. • The Software should have Image Stitching facility as a standard. • The Detector should have an OLED Display window to view the detector status. • Easy switch from sleep mode to acquisition mode for better battery performance • The detector should also have a direct charging facility (without removing batteries) • Measurements, Annotations, ROI, Markers, Image Rotation, WW/WL etc. • The detector and console software should be from the same manufacturer. • The OEM of the detector should not have a border sharing with India. • The system should have detector storage with key lock facility. V. Mobile Stand:

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				• The stand should have a gas spring-based counterbalanced arm for noiseless operation. • The Arm should be dual-articulated to keep the tube-head always straight for ease of positioning. • The cable should be concealed in the arm for hygienic advantages, especially in ICU usage. Mobile Radiography Table: • Table-Top Length: 1950 mm • Table-Top Width: 660 mm • Table-top height: 760 mm • Four Wheels (Front Wheels with lock; Rear Wheels without Lock) Table-Top Material: Bakelite. DICOM Printer • Single Tray Laser Printer • 325 pixels per inch, 78-micron laser spot spacing. • Integrated DICOM interface supports printing from DICOM modalities. • Supports the following film sizes: a) 14X17 in. (35 x 43 cm),11 x 14 in. (28 x 35 cm) b) 10 x 12 in. (25 x 30 cm), 8 x 10 in. (20 x 25 cm) VI. Connectivity / Data Export: • The System should have a LAN Connectivity Port for transferring the DICOM Image to PACS / Imager • Networking Compatibility: Local/MWL/Storage Server/MPPS/Printer • CD/ DVD Read/Write facility. • The system should have an HDMI port to share the display on the external monitor. VII. POWER SUPPLY REQUIREMENTS • 230Vac ± 10%, Single phase, 50 Hz. VIII. STANDARD ACCESSORIES • Lightweight Radiation protection Apron with Thyroid guard – 2nos Others: • The unit should be BIS, CDSCO & AERB approved. • The detector should be USFDA and European CE certified. • The manufacturing firm should be ISO 13485: 2016 compliant. • User manual to be supplied in English. • The unit should be offered with 2years warranty and 5

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				years Comprehensive Maintenance contract (CMC) • QA test should be done free of cost during the warranty period (once every year) and yearly QA test shall be done in the CMC period also and the rates shall be included in the CMC offered. • The company should have a well-established after-sales and service network with a toll-free service Call login facility. The companies should also have a local service representative or service facility to provide the fastest response time in case of a breakdown of the equipment.
13	1367	**HbA1c Analyzer** 20. 5000 patient test kit / consumables should be supplied along with machine free of cost	Maximum of 100 patient test kit / consumables should be supplied along with machine free of cost(Maximum Offered free Kit is 50 by any Company)	Tender Condition Prevails
14	KW4 with KW 4-6 Page No. 50	**PART – B : MEDICAL EQUIPMENT as per BOQ & technical specification of each medical equipment can be collected separately from the executive engineer office.** PART-B: MEDICAL EQUIPMENT as per BOQ & technical specification of each medical equipment can be collected separately from the executive engineer office. All Medical Equipment as per the BOQ specification &compliance with ISO 13485/ICMED13485/CE/BIS/ USFDA standards duly Certified by CDSCO (Central Drug Standard Control Organisation) (Required additional certificate As applicablefordifferent Medical equipment). • Detailed description of the essential technical and performance characteristics of the equipment /hardware/software being offered. Technical specifications mentioned in the BOQ document vis-à-vis technical specifications of the equipment/hardware/software proposed to be supplied by the tenderer, along with the certifications if any required in addition to the certificates indicated at above	All These Certificates will Be provided only after or During Installation of the Equipments. This is the standard Procedure	This Criteria is Considered under "Scope of Work".

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		• OEM (Original Equipement Manufacturer) authorization certificate/ or an authorized dealer of the OEM for supply of Medical Equipment is Mandatory		
		• Installation, testing & commissioning		
		• Integration with building services		
		• On-site training		
		• Warranty certificates.		
		• Training to doctors, nurses and technicians.		
		• User manuals, service manuals.		
		• Calibration & test certificates.		
		Compliance		
		All works shall comply with:		
		• IPHS-		

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Sl No	2. M/S Amrutha Constructions Pvt Ltd.			
	Tender Clauses Sl.No	Queries	Request for the Modification	Clarifications/Modification for the Queries
15	Page No 10 KW 4 Clause 13 13.3 Earnest Money Deposit	13.3 The earnest money deposit amount to be made partly through the method as detailed in ITC Clause 13.4 and balance through financial instruments such as FDR/ irrevocable BG. However, the minimum amount of tender security that has to be paid in the method as detailed in ITC Clause13.3 shall be Rs.1.0 lakh. The FDR / irrevocable BG for the balance amount, should be issued by Nationalized/ Scheduled banks. FDR / irrevocable BG should be drawn in favour of THE Executive Engineer-4, Project Implementation Unit, Bangalore. The details of payment of tender processing fee and earnest money deposit shall be filled in the Form given in EMD FORMAT and uploaded in the First Folder (technical proposal). Further the original Bank Guarantee shall be submitted to the Office of Executive Engineer-4, Project Implementation Unit, 9thfloor,shopping complex,Jayanagara 4th block, Bangalore 560011 within the date of opening of technical bid as specified in the bid document.	We request you to consider the Earnest Money Deposit balance amount in the Form of Bank Guarantee / Insurance Surety Bond. Kindly Consider Balance EMD Amount in the form of Insurance Surety Bond as Per GO No. FD 944 Exp-12/2024, Dated 03.04.2025	The EMD Balance amount in the form of BG/ Insurance surety Bond will be considered.

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16	Page No 33 KW 4 Clause 42 Advance Payment	42.1 The Employer shall make payment to the Contractor of the amounts stated in the Contract Data by the date stated in the Contract Data, against provision by the Contractor of an unconditional bank guarantee in a form acceptable to the Employer issued by a Nationalized/Scheduled Bank in amounts equal to the advance payment. The guarantee shall remain effective until the advance payment has been repaid, but the amount of the guarantee shall be progressively reduced by the amounts repaid by the Contractor. Interest will not be charged on the advance payment.	We request for consideration, Mobilization advance at least 10 % of the Contract value without interest to commence the work at the earliest and also mobilize the material and labour.We request for consideration, Mobilization advance at least 10 % of the Contract value without interest to commence the work at the earliest and also mobilize the material and labour.	42.1 Mobilizations, Machinery advance: - 5% of the contract price will be given with Conditions to be Fulfilled as below, (a) On submission of Irreversible Bank Guarantee from local branch of Nationalized bank valued for full period of contract period (b)Drawn on or before Ninety (90) days from the signing of the agreement. (c) The contractor shall furnish Bank guarantees of 5% valid for full period of contract, (d) After Machinery is brought to site with good working condition (provided the Engineer-in- charge shall Certify that the Machinery is required for performance of the tender requirement after submission Equipment Document Invoices. RC Book etc. Along with GPS Stamp Photos). 42.2 Repayment of advance payment for mobilization: The advance loan shall be repaid with percentage deductions from the interim payments certified by the Engineer under the Contract. Deductions shall commence in the next Interim Payment Certificate following that in which the total of all such payments to the Contractor has reached not less than 15 percent of the Contract Price or 6 months from the date of payment of first installment of advance, whichever period concludes earlier, and shall be made at the rate of 7.5% percent of the amounts of all Interim Payment Certificates until such time as the loan has been repaid, always provided that the loan shall be completely repaid prior to the expiry of the original time for completion pursuant to Clauses 17 and 26. 42.3 The advance payment shall be repaid by deducting proportionate amounts from payments otherwise due to the Contractor, following the schedule of completed percentages of the Works on a payment basis. No account shall be taken of the advance payment or its repayment in assessing valuation of the work done, variations, price adjustments, compensation events or liquidated damages.

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3. Sun Zen

Sl No	Tender Clauses Sl.No	Queries	Request for the Modification	Clarifications/Modification for the Queries
17	1300	**USG with TVS, Linear, Convex**		
		58 7-18 MHz High Frequency Multi-frequency Linear Transducer for superficial and Musculoskeletal scans.	Kindly make this feature as optional. This is not a needed in Gynecology Scan Machines.	Tender Condition Prevails
18	1331	**Cautery Machine with Trolley**		
		a. Low cut for delicate tissue or endoscopic cases. :	Kindly make this feature as optional. Outdated Feature . This feature is no more provided in newer generation gynecology cautery machines.	
		b. Pure cut for clean, precise cut		
		c. Blend for cutting with homeostasis.		
		8. Coagulation modes:		
		Note :- 1. If CDSCO (Central Drugs Standard Control Organization) certification is required for the important and marketing of the equipments, then the same shall be submitted along with the technical bid	Compatible Trolley to be added in specification. Its mandatory for all Cautery system	Tender Condition Prevails
19	1347	**Dental X Ray Unit**		
		5 KW Digital Mobile X-ray System with wireless 14"x17" Flat Panel Detector	Mismatch in Specification	Refer Sl No 11.
20	1350	Digital X-ray system (CR system with 500ma x-ray),Table and Bucky, Printer	Mismatch in Specification	Refer Sl No 12
21	1353	**ECG Machine**		Tender Condition Prevails
		12 channel ECG recording and should have simultaneous Acquistion of all leads and display.		
		Should have colour LCD display with a minimum size of 10"	Change to 7 Inches or above. Feature of Compact New Gen Machine	

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		Should have Qwerty Keyboard Should have interpretation program as a standard feature		
		Should have Built in storage of 1000 ECG Reports in XML/PDF/BMP/JPG Formats. And with optional SD card, should be able to store up to 10000 ECGs	Built in Storage Of Min 350 ECG report and Optional SD card . Feature of Compact New Gen Machine	
22	1374	**Incubator**	Mismatch in Specification	**Incubator** **For Laboratory use** 1. Should be operated on 230V,50Hz single-phase AC supply , and having temperature ranging from ambient to 60ºC 2. Should be double-walled with stainless steel inner chamber having a minimum of two inner stainless steel shelves with holes and powder-coated outer surface. 3. The inner chamber should be fabricated with ribs for adjusting shelves to a convenient height. 4. Should have a minimum of chamber size of (L*B*H) of 450*450*450mm. 5. Should be provided with three side heating elements. 6. Should have air circulating fan (Which can be turned ON/OFF on demand) for uniform temperature on all shelves. 7. Should have a double door with an acrylic transparent door. 8. Should provide a microprocessor-based digital temperature controller with a digital display. 9. Should have synthetic rubber gasket at the door. 10. Should have a safety certificate from a competent authority CE/FDA (US)/BIS. Should have valid detailed electrical and functional safety test report from ERTL. Copy of the certificate/test report shall be produced along with the technical bid 11. Traceable calibration certificate shall be provided along with each machine
		Application specific design		
		Temperature range 5^0 c above ambient to 80^0 c + 2^0 c controlled by thermostat		
		The equipment is workable on 220v AC 50Hz single phase		
		Heating is achieved from 3 sides optional		
		Timer 0-24 hours		

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4. LAKSHANYA VENTURES PVT LTD

Sl No	Tender Clauses Sl.No	Queries	Request for the Modification	Clarifications/Modification for the Queries
23	1244	OT Table (Hydraulic)	Requested for right Specification and Product Mismatch	Refer Sl No 01
24	1251	Patient Monitors - 3 Parameter		
		1 Patient monitor must have 12.1" TFT Screen	Kindly Change to 10" or above Wider Participation for Indian manufacturers	Tender Condition Prevails
25	1319	Automated Testing for BETA- THALASSEMIA		
		4 System should give results in 8 to 10 mins	Request to change it to 2 Hours. Wider Participation for Indian manufacturers	Tender Condition Prevails
26	1325	Blood Gas analyzer		
		3. Should have a sample through put of minimum 30 samples per hour	Kindly Change to 20 Samples or above per Hour. Wider Participation for Indian manufacturers	Tender Condition Prevails
27	1347	Dental X Ray Unit	Requested for right Specification ,Specification and Product Mismatch	Refer Sl No 11
28	1348	Dental Work station + Chair		Tender Condition Prevails
		3.Adjustable Timer up-to 15 seconds should be there to adjust timings of the water flow in the spittoon	Request to change it to Up to 30 Seconds .Wider Participation	
29	1350	Digital X-ray system (CR system with 500ma x-ray),Table and Bucky, Printer	Requested for right Specification .Specification and Product Mismatch	Refer Sl No 12

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5. Queries received online

Sl No	Document Name. (Page No/Section Name)	Statement	Queries	Clarifications/Modification for the Queries
30	Earnest Money Deposit 4.0 Earnest Money Deposit	Balance amount in the form of bank Gurantee	Request you to consider the Earnest Money Deposit balance amount in the Form of Bank Guarantee / Insurance Surety Bond. Kindly Consider Balance EMD Amount in the form of Insurance Surety Bond	Refer Sl No 15 .
31	Mobilization Advance 33 Advance Payment in KW 4	Percentage Not Mentioned	Request You to Provide the Interest Free Mobilization at 10% of the Contractor Price.	Refer Sl No 16 .
32	Request For mobilization Advance KW 4 - Page No -33	Percentage Not Mentioned	We kindly request you to provide an interest free Mobilization Advance amounting to 10 percentage of the contract Price, as per the provisions of the Contract, to facilitate smooth mobilization of resources for timely execution of the work	Refer Sl No 16 .

The meeting was concluded with thanks to the Chair and all participants.

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